

## **Amendments to the Claims**

This listing of claims will replace all prior versions, and listing of claims in the Application:

### **Listing of Claims:**

Claims 1-29 (Previously cancelled).

30. (Currently amended) A method of recovering from a failure of a server to a client, comprising:

using wrapping layers to intercept communications to a connection-oriented protocol layer, the communications originating from a network layer and a process layer of a layered communications framework, wherein a first wrapping layer is interposed between the process layer and the connection-oriented protocol layer, and wherein a second wrapping layer is interposed between the network layer and the connection-oriented layer;

logging the intercepted communications and connection state information associated with intercepted communications received from the wrapping layers;

determining when a connection with the server fails;

responding to the client on behalf of the server by the wrapping layers based on at least, in part, on the logged connection state information; and

restoring a state of connection associated with the connection-oriented layer prior to the failure, based on at least, in part, on the connection state information received from the wrapping layers, wherein restoring the state of connection associated with the connection-oriented layer is invisible to the client and wherein recovery from failure of the server by the client does not involve interposing a proxy or intermediary.

31. (Previously presented) The method as recited in Claim 30, wherein in the connection-oriented layer is a Transmission Control Protocol Layer.

32. (Previously presented) The method as recited in Claim 30, wherein the network layer is an Internet Protocol layer.

33. (Previously presented) The method as recited in Claim 30, wherein the process layer is an Application layer.

34. (Previously presented) The method as recited in Claim 30, wherein the logging of the intercepted communications and connection state information is performed on a processor separate from a processor executing the server.

35. (Previously amended) The method as recited in Claim 30, wherein the first wrapping layer is a south side wrapper.

36. (Previously amended) The method as recited in Claim 30, wherein the second wrapping layer is a north side wrapper.

37. (Currently amended) A system for recovering from a failure of a server to a client, comprising:

means for intercepting communications to a connection-oriented protocol layer, the communications originating from a network layer and a process layer of a layered communications framework, the means for intercepting communications being interposed between the process layer and the connection-

oriented protocol layer, and between the network layer and the connection-oriented layer;

means for logging the intercepted communications and connection state information associated with intercepted communications;

means for determining when a connection with the server fails;

means for responding to the client on behalf of the server based on at least, in part, on the logged connection state information; and

means for restoring a state of connection associated with the connection-oriented layer prior to the failure, based on at least, in part, on the connection state information, wherein restoring the state of connection associated with the connection-oriented layer is invisible to the client and wherein restoring the state of connection from failure of the server to the client does not involve interposing a proxy or intermediary between the client and server.